PAGE: 1
NGWYN D

45

46

RAW SEQUENCE LISTING PATENT APPLICATION US/08/799,910

DATE: 11/26/97 TIME: 13:57:20

INPUT SET: S21738.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERED SEQUENCE LISTING 1 2 3 (1) General Information 4 5 (i) APPLICANT: Falb, Dean 6 7 (ii) TITLE OF THE INVENTION: COMPOSITIONS AND METHODS FOR 8 THE TREATMENT AND DIAGNOSIS OF 9 CARDIOVASCULAR DISEASE 10 (iii) NUMBER OF SEQUENCES: 44 11 12 (iv) CORRESPONDENCE ADDRESS: 13 14 (A) ADDRESSEE: PENNIE & EDMONDS LLP 15 (B) STREET: 1155 Avenue of the Americas (C) CITY: New York 16 17 (D) STATE: NY 18 (E) COUNTRY: USA (F) ZIP: 10036-2711 19 20 21 (v) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Diskette 23 (B) COMPUTER: IBM Compatible 24 (C) OPERATING SYSTEM: DOS 25 (D) SOFTWARE: FastSEQ Version 2.0 26 (vi) CURRENT APPLICATION DATA: 27 (A) APPLICATION NUMBER: 08/799,910 28 29 (B) FILING DATE: 13-FEB-1997 30 (C) CLASSIFICATION: 31 (vii) PRIOR APPLICATION DATA: 32 (A) APPLICATION NUMBER: 60/011,787 33 34 (B) FILING DATE: 16-FEB-1996 35 36 37 38 (viii) ATTORNEY/AGENT INFORMATION: 39 (A) NAME: Coruzzi, Laura A (B) REGISTRATION NUMBER: 30,742 40 (C) REFERENCE/DOCKET NUMBER: 7853-067-999 41 42 43 (ix) TELECOMMUNICATION INFORMATION: 44 (A) TELEPHONE: (212)7909090

(B) TELEFAX: (212)8699741

(C) TELEX: 66141 PENNIE

47

RAW SEQUENCE LISTING PATENT APPLICATION US/08/799,910

DATE: 11/26/97 TIME: 13:57:23

INPUT SET: S21738.raw

48																
49	• •															
50	() CROUDINGE CUIDI CHERT CO.															
51	(i) SEQUENCE CHARACTERISTICS:															
52	(A) LENGTH: 1953 base pairs															
53	(B) TYPE: nucleic acid															
54	(C) STRANDEDNESS: both															
55	· ·															
56																
57																
58																
59																
60	(A) NAME/KEY: Coding Sequence															
61																
62	(D) OTHER INFORMATION:															
63	· ·															
64																
65	• • -															
66																
67	***************************************														60	
68															120	
69															176	
70	<u>-</u>															
71	<u> </u>															
72																
73	GAA GAG															224
74	Glu Glu	Pro	Arg	Pro	Pro	Glu	Gln	Gln	_	Gln	Glu	Gly	Gly		Ala	
75				10					15					20		
76																
77	GCC AAG															272
78	Ala Lys	Ala		Pro	Glu	Glu	Pro		Gln	Arg	Pro	Pro		Ala	Val	
79			25					30					35			
80																
81	GCG GCG															320
82	Ala Ala		Pro	Ala	GTÀ	Thr		Ser	Ser	Arg	Val		Arg	GTÀ	GTÀ	
83		40					45					50				
84																0.00
85	CGG GAC										_					368
86	Arg Asp	Arg	GTÀ	Arg	Ala		Ala	Ala	АТа	Ala		Ala	Ala	val	ser	
87	55					60					65					
88														~~~		43.6
89	CGC CGG															416
90	Arg Arg	Arg	Lys	Ala		Tyr	Pro	Arg	Arg	_	Arg	Ser	ser	Pro		
91	70				75					80					85	
92															maa	
93	GCC AGG															464
94	Ala Arg	Pro	Pro	_	Val	Pro	GŢÀ	Gln		Pro	GIn	Ala	Ala		ser	
95				90					95					100		
96													m ~ ~			~10
97	CCG TCT															512
98	Pro Ser	Pro		GLn	GТÄ	Lys	Lys		Pro	Arg	Leu	Leu		тте	GLU	
99			105					110					115			

RAW SEQUENCE LISTING PATENT APPLICATION US/08/799,910

INPUT SET: S21738.raw

DATE: 11/26/97 TIME: 13:57:27

														IIVI	013	EI: 3	61/30.TUW
100											~~~		a. a	~	<i>a</i>	a.a	560
101						AAA											560
102	гàг	vaı		Thr	Asp	Lys	ASP	125	ràs	GIU	GIU	Lys	130	GIU	GIU	ASP	
103 104			120					125					130				
104	CAT	ጥርጥ	acc	משמ	CCT	CAG	CAA	CITIT	TCC	ΔͲͲ	CCT	CCA	ጥርጥ	AGA	ССТ	AGC	608
106						Gln											000
107	vob	135	AIG	БСС	110	01	140	***	DCI	110		145		9		201	
108																	
109	CGG	GGC	TGG	CGT	AGT	AGT	AGG	ACA	TCT	GTT	TCT	CGC	CAT	CGT	GAT	ACA	656
110	Arq	Gly	Trp	Arg	Ser	Ser	Arg	Thr	Ser	Val	Ser	Arg	His	Arg	Asp	Thr	
111	150	•	-			155	-				160	•		_	_	165	
112																	
113	GAG	AAC	ACC	CGA	AGC	TCT	CGG	TCC	AAG	ACC	GGT	TCA	TTG	CAG	CTC	ATT	704
114	Glu	Asn	Thr	Arg	Ser	Ser	Arg	Ser	Lys	Thr	Gly	Ser	Leu	Gln	Leu	Ile	
115					170					175					180		
116																	
117						AAT											752
118	Cys	Lys	Ser		Pro	Asn	Thr	Asp		Leu	Asp	Tyr	Asp		СТĀ	GIu	
119				185					190					195			
120	aza	CI A ITT	a 2 a	шаш	aa s	GGT	000	» mm	3 CITI	aam	(1 A A	C A C	C 3 3	CAC	CAC	CAC	800
121 122						Gly											800
123	GIU	nis	200	Ser	PIO	GLY	СТУ	205	Ser	СТУ	GIU	GIU	210	GIU	GIU	GIU	
124			200					203					210				
125	GAA	GAA	GAG	ATG	TTA	ATC	AGT	GAA	GAG	GAG	ATA	CCA	TTC	AAA	GAT	GAT	848
126						Ile											
127		215					220					225		-	-	-	
128																	
129						TAC											896
130	Pro	Arg	Asp	Glu	Thr	Tyr	Lys	Pro	His	Leu	Glu	Arg	Glu	Thr	Pro	Lys	
131	230					235					240					245	
132																	
133						GGG											944
134	Pro	Arg	Arg	Lys		Gly	Lys	va⊥	Lys		GIU	Lys	GIU	гàг		GIU	
135					250					255					260		
136 137	a mm		OTT C	מאא	CITE A	GAG	ama	CAC	ama.	222	CAA	GAG	GAG	አአጥ	CAA	אייייי	992
137						Glu											772
139	116	цуз	AGT	265	VQI	GLU	Val	GIU	270	пуз	GIU	GIU	GIU	275	014	110	
140				200										_, _			
141	AGA	GAG	GAT	GAG	GAA	CCT	CCA	AGG	AAG	AGA	GGA	AGA	AGA	CGA	AAA	GAT	1040
142						Pro											
143	,		280					285	-	•	•		290	_	•	-	
144																	
145						TTA											1088
146	Asp	Lys	Ser	Pro	Arg	Leu	Pro	Lys	Arg	Arg	Lys	Lys	Pro	Pro	Ile	Gln	
147		295					300					305					
148															 -		
149						ATG											1136
150	_	Val	Arg	Cys	GLu	Met	GLu	GТĀ	cys	СŢЙ		vaı	Leu	Ala	HIS		
151	310					315					320					325	
152																	

RAW SEQUENCE LISTING PATENT APPLICATION US/08/799,910

DATE: 11/26/97 TIME: 13:57:30

			INPUT SET: S										ET: S21	1738.raw			
153	CGC	TAT	TTG	CAG	CAC	CAC	ATT	AAA	TAC	CAG	CAT	TTG	CTG	AAG	AAG	AAA	1184
154	Arg	Tyr	Leu	Gln	His	His	Ile	Lys	Tyr	Gln	His	Leu	Leu	Lys	Lys	Lys	
155					330					335					340		
156																	
157	TAT	GTA	TGT	CCC	CAT	CCC	TCC	TGT	GGA	CGA	CTC	TTC	AGG	CTT	CAG	AAG	1232
158	Tyr	Val	Cys	Pro	His	Pro	Ser	Cys	Gly	Arg	Leu	Phe	Arg	Leu	Gln	Lys	
159				345					350					355			
160																	
161	CAA	CTT	CTG	CGA	CAT	GCC	AAA	CAT	CAT	ACA	GAT	CAA	AGG	GAT	TAT	ATC	1280
162	Gln	Leu	Leu	Arg	His	Ala	Lys	His	His	Thr	Asp	Gln	Arg	Asp	Tyr	Ile	
163			360					365					370				
164																	
165						CGG											1328
166	Cys		Tyr	Cys	Ala	Arg		Phe	Lys	Ser	Ser		Asn	Leu	Ala	Val	
167		375					380					385					
168																	1000
169						ACT											1376
170		Arg	мет	тте	His	Thr	сту	GLU	ьys	Pro		GIN	cys	GTU	тте	_	
171	390					395					400					405	
172	aa .	mmm	3 CI	mam	003	a.	330	aa 2	mam	amm	3 3 M	maa	030	a ma	330		1424
173 174						CAA Gln											1424
175	GTA	Pne	THE	Cys	410	GIII	гуѕ	АТА	Ser	415	ASII	пр	птѕ	мес	420	гÀр	
176					410					417					420		
177	САТ	СУТ	CCA	GAC	TCC	TTC	TAC	CAG	արա	ጥረጥ	TCC	λλΨ	ልሞሮ	ጥረጥ	aac	λλλ	1472
178						Phe											11/4
179	1120	пор	niu	425	501		- 7 -	O ±	430	501	0,5			435	017	_,_	
180																	
181	AAA	ттт	GAG	AAG	AAG	GAC	AGC	GTA	GTG	GCA	CAC	AAG	GCA	AAA	AGC	CAC	1520
182						Asp											
183	-		440	•	-	-		445				•	450	-			
184																	
185	CCT	GAG	GTG	CTG	ATT	GCA	GAA	GCT	CTG	GCT	GCC	AAT	GCA	GGC	GCC	CTC	1568
186	Pro	Glu	Val	Leu	Ile	Ala	Glu	Ala	Leu	Ala	Ala	Asn	Ala	Gly	Ala	Leu	
187		455					460					465					
188																	
189						ATC											1616
190		Thr	Ser	Thr	Asp	Ile	Leu	Gly	Thr	Asn		Glu	Ser	Leu	Thr		
191	470					475					480					485	
192																	
193						GGT											1664
194	Pro	Ser	Asp	GTÀ		Gly	Leu	Pro	Leu		Pro	GLu	Pro	Leu	_	Asn	
195					490					495					500		
196	ma.	3.00	mam	223	~ ~	maa	am.	ama	mm >	a.,	aam	<i>a</i>	~~~	3 ma	max		1710
197						TGC											1712
198	ser	rnr	ser	_	GLU	Cys	ьeu	ьeu		GLU	ATA	GIU	сτλ		ser	гÀг	
199				505					510					515			
200 201	m/l s	mac	maa	y Cim	aaa	ACG	CIAA	aaa	ama	אממ	CITIC	አመጣ	CCM	CIAM	aaa	A A C	1760
201						Thr											1/60
202	Ser	TAL	520	Ser	стА	TILL	GTU	525	мат	Ser	ьeu	Mec	530	wab	сту	пЛэ	
203			J Z U					J Z J					330				
205	ΔͲሮ	ффф	GTG	GGA	AGC	GGC	AGC	АСТ	GGA	GGC	АСТ	GAA	GGG	СТС	Стт	АТС	1808

258

RAW SEQUENCE LISTING PATENT APPLICATION US/08/799,910

DATE: 11/26/97 TIME: 13:57:33

														IN	PUT S	ET: S217	738.raw
206	Ile	Phe	Val	Gly	Ser	Gly	Ser	Ser	Gly	Gly	Thr	Glu	Gly				
207		535		•		-	540	•	-	-		545	_				
208																	
209	AAC	TCA	GAT	ATA	CTC	GGT	GCT	ACC	ACA	GAG	GTT	CTG	ATT	GAA	GAT	TCA	1856
210												Leu					
211	550		•			555					560				_	565	
212																	
213	GAC	TCT	GCC	GGA	CCT	TAG	rgga	CAG (GAAG	ACTT	GG GG	GCAT	GGGA	CAG	CTCA	GACT T	1912
214	Asp	Ser	Ala	Gly	Pro												
215	_			_	570												
216																	
217	TGT	ATTT!	AAA A	AGTT	AAAA	AG G	ACAA	AAAA	A AA	AAAA	AAAA	A					1953
218																	
219	-																
220																	
221	· · =																
222	(A) LENGTH: 570 amino acids																
223	(B) TYPE: amino acid																
224	(C) STRANDEDNESS: unknown																
225	(D) TOPOLOGY: unknown																
226									_								
227																	
228	(v) FRAGMENT TYPE: internal																
229												_					
230		(2	Ki) :	SEQUI	ENCE	DESC	CRIP	rion	: SE	D ID	NO:	2:					
231		_			1			_		_	_		~7	~ 1	•	a 1	
232		Pro	GTÀ	GIu		GIU	GIU	Pro	arg		Pro	Glu	GIN	GIN		GIN	
233	1	a1	a 1	a1	5		.	.1.	.1.	10	a 1	a1	73	a 1	15	3	
234	GTU	GTA	GTA		АТа	АТа	ràs	Ата		Pro	GIU	Glu	Pro	30	GIN	Arg	
235	Dwo	Dwa	a1	20	W-1	210	3] o	3 T G	25	31 0	a1	Thr			Cor	λκα	
236 237	PIO	Pro	35	Ата	νат	АТА	Ата	40	PIO	Ald	СТУ	THE	45	Ser	Ser	AIG	
237	va 1	LON		cl v	al v	Ara	Aan		Gl v	λτα	λla	Ala		λla	λla	λla	
239	vaı	50	ALG	СТУ	GLY	ALG	55	Arg	GIY	Arg	Ата	60	Ата	Ата	WTG	ATG	
240	λla		λla	Val	Sor	λτα		λτα	T.ve	λla	Glu	Tyr	Pro	Δτα	Δτα	Δra	
241	65	ALG	ATG	Val	Ser	70	Arg	ALG	цуз	AIG	75	1 y 1	110	nr 9	n. y	80	
242		Sar	Sar	Dro	Sor		Δra	Pro	Pro	Δsn		Pro	Glv	Gln	Gln		
243	Arg	Der	261	110	85	AIG	Arg	110	110	90	*41	110	Q±y	O	95		
244	Gln	Δla	Δla	Lvs		Pro	Ser	Pro	Val		Glv	Lys	ī.vs	Ser		Ara	
245	01	mu		100	501		~~~		105		1	-,-	-1-	110		5	
246	Leu	Leu	Cvs		Glu	Lvs	Val	Thr		Asp	Lvs	Asp	Pro		Glu	Glu	
247			115			-1-		120			-1-		125	-1-			
248	I.vs	Glu		Glu	Asp	Asp	Ser		Leu	Pro	Gln	Glu		Ser	Ile	Ala	
249	-,-	130					135					140					
250	Ala		Ara	Pro	Ser	Ara	Glv	Trp	Ara	Ser	Ser	Arg	Thr	Ser	Val	Ser	
251	145		- 3			150	- 4	-	,	•	155	,				160	
252			Ara	Asp	Thr		Asn	Thr	Arq	Ser	Ser	Arg	Ser	Lys	Thr	Gly	
253	,			-	165				,	170				-	175	-	
254	Ser	Leu	Gln	Leu	Ile	Cys	Lys	Ser	Glu	Pro	Asn	Thr	Asp	Gln	Leu	Asp	
255				180		-	-		185				-	190			
256	Tyr	Asp	Val	Gly	Glu	Glu	His	Gln	Ser	Pro	Gly	Gly	Ile	Ser	Gly	Glu	
257	-	_	195					200					205				
0.50	al. .	a1	01	a1	91	al. .	~1	al	M-1	T	T7 -	G	~1	~1	a1	T10	

Glu Glu Glu Glu Glu Glu Glu Met Leu Ile Ser Glu Glu Glu Ile

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/799,910*

DATE: 11/26/97 TIME: 13:57:38

INPUT SET: S21738.raw

Line

Error

Original Text